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STRUCTURE FILE UPDATES: 3 JUN 2002 HIGHEST RN 425364-64-3
DICTIONARY FILE UPDATES: 3 JUN 2002 HIGHEST RN 425364-64-3

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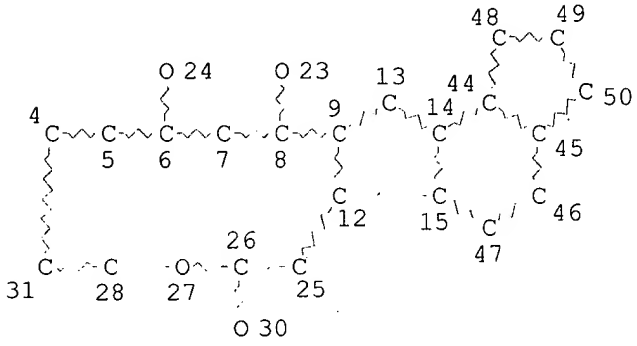
Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> d sta que l45
L27 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

L29	655	SEA	FILE=REGISTRY	SSS FUL	L27
L35	466	SEA	FILE=REGISTRY	ABB=ON PLU=ON	L29 AND 6/NR
L36	215	SEA	FILE=REGISTRY	ABB=ON PLU=ON	L35 AND 1/N AND 10/O
L37	202	SEA	FILE=REGISTRY	ABB=ON PLU=ON	L36 AND 1/NC
L38	122	SEA	FILE=REGISTRY	ABB=ON PLU=ON	L37 NOT TRI O METHYL
L39	80	SEA	FILE=REGISTRY	ABB=ON PLU=ON	L37 NOT L38
L40	22	SEA	FILE=REGISTRY	ABB=ON PLU=ON	L39 NOT DIMETHYLAMINO
L41	58	SEA	FILE=REGISTRY	ABB=ON PLU=ON	L39 NOT L40
L42	49	SEA	FILE=REGISTRY	ABB=ON PLU=ON	L41 NOT (BR OR CL OR F OR I)/ELS
L43	35	SEA	FILE=REGISTRY	ABB=ON PLU=ON	L29 AND (C41H65NO10 OR C42H67NO10)
L44	14	SEA	FILE=REGISTRY	ABB=ON PLU=ON	L42 AND L43
L45	11	SEA	FILE=REGISTRY	ABB=ON PLU=ON	L44 NOT (187169-95-5/BI OR 187172-59-4/BI OR 187172-61-8/BI)

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=> d his

     (FILE 'HOME' ENTERED AT 13:38:03 ON 05 JUN 2002)
               SET COST OFF

     FILE 'HCAPLUS' ENTERED AT 13:38:20 ON 05 JUN 2002
               E JANSSEN H/AU
L1          172 S E3-E23
L2            1 S E44
L3            1 S E71
               E HO K/AU
L4          526 S E3-E25
               E HO KIE/AU
L5            4 S E3,E4
               E NYSTRAND G/AU
L6            7 S E3-E5
               E WILLIAMS D/AU
L7         3452 S E3-E73
               E WILLIAMS DEX/AU
               E LAMB C/AU
L8           33 S E3,E12
L9          322 S LAMB C?/AU
               E LAMB S/AU
L10           9 S E3,E6
L11        4491 S L1-L10
L12        1417 S LOUSE
               E LICE/CT
               E E3+ALL
L13          26 S E1
               E E2+ALL
L14         296 S E6+NT
L15         133 S (P OR PEDICULUS)()HUMANUS
L16          35 S (P OR PEDICULUS)()HUMANUS()HUMANUS
L17           8 S PEDICULIDAE OR PTHIRIDAE
L18           4 S HEADLICE
L19           1 S HEADLOUSE
L20           0 S L11 AND L12-L19
L21           0 S JOHNSON?/PA,CS AND L12-L19

     FILE 'REGISTRY' ENTERED AT 13:44:26 ON 05 JUN 2002
L22             STR
L23           0 S L22
L24           0 S L22 FUL
               SAV L24 LEVY841/A
L25             STR L22
L26           0 S L25
               DEL LEVY841/A
L27             STR L25
L28          12 S L27
L29         655 S L27 FUL
               SAV L29 LEVY841/A
L30             STR L25
L31           0 S L30 CSS SAM SUB=L29
L32           0 S L30 SAM SUB=L29
L33             STR L30
L34           0 S L33 CSS SAM SUB=L29
L35         466 S L29 AND 6/NR
L36         215 S L35 AND 1/N AND 10/O
L37         202 S L36 AND 1/NC
L38         122 S L37 NOT TRI O METHYL
L39          80 S L37 NOT L38
L40          22 S L39 NOT DIMETHYLAMINO
L41          58 S L39 NOT L40
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L42          49 S L41 NOT (BR OR CL OR F OR I)/ELS
L43          35 S L29 AND (C41H65NO10 OR C42H67NO10)
L44          14 S L42 AND L43
                SEL RN 3 4 7
L45          11 S L44 NOT E1-E3
L46          24 S L43 NOT L45
                SEL RN L45
L47           4 S E4-E14/CRN
L48           3 S L47 NOT C21H24CL2O4

     FILE 'HCAPLUS' ENTERED AT 14:15:16 ON 05 JUN 2002
L49          65 S L45 OR L48
L50          95 S SPINOSYN#
L51          75 S SPINOSYN# () (A OR D OR G)
L52           9 S A83543A OR A83543D OR A83543G OR A83543()(A OR D OR G) OR A()
L53           4 S LEPICIDIN#
L54         108 S L49-L53
                E SACCHAROPOLYSPORA/CT
L55          20 S E12+NT
L56          31 S E12/BI
                E E3+ALL
L57         583 S E5+NT
L58         829 S E5-E17/BI
                E E4+ALL
L59         829 S L55-L58
L60           6 S PVM(L)MA (L) ?DECADIENE? (L) ?POLYM?
L61           6 S L60 AND ?CROSS?

     FILE 'REGISTRY' ENTERED AT 14:21:59 ON 05 JUN 2002
L62           1 S 145314-10-9
L63           1 S 124-18-5
L64           1 S 107-25-5
L65           1 S 108-31-6
L66         834 S 107-25-5/CRN
L67           2 S L66 AND 124-18-5/CRN
L68           1 S L67 AND C4H2O3
L69           1 S L62,L68

     FILE 'HCAPLUS' ENTERED AT 14:24:44 ON 05 JUN 2002
L70          11 S L69
L71          32 S STABILEZE
L72          21 S STABILEZE()(06 OR 6)
L73           0 S L54 AND L61,L70-L72
L74           0 S L59 AND L61,L70-L72
L75        1297 S (MA OR MALEIC ANHYDRIDE)(L)(METHYLVINYLETHER OR POLYMETHYLVIN
L76           0 S L75 AND L54
L77           0 S L75 AND L59
L78           0 S L11 AND L54,L59
L79           0 S L11 AND L54,L59

     FILE 'REGISTRY' ENTERED AT 15:15:48 ON 05 JUN 2002
                E BENZYL ALCOHOL/CN
L80           1 S E3
                E PENTYLENE GLYCOL/CN
L81           1 S E3
                E ISOPROPYL ALCOHOL/CN
L82           1 S E3
                E HEXYLENE GLYCOL/CN
L83           1 S E3
                E BUTYLENE GLYCOL/CN
L84           3 S E3
                E DIPROPYLENE GLYCOL/CN
L85           1 S E3
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                E PROPYLENE GLYCOL/CN
L86           1 S E3
                E CETERAYL ALCOHOL/CN
                E CETEARYL ALCOHOL/CN
L87           1 S E3
                E CETEARETH/CN
L88           1 S E6
                E STEARALKONIUM/CN
L89           1 S E5
                E BHT/CN
L90           1 S E3
                E SODIUM HYDROXIDE/CN
L91           1 S E3
                E CETYL ALCOHOL/CN
L92           1 S E3
                E STEARYL ALCOHOL/CN
L93           1 S E3
L94          19 S 36653-82-4/CRN AND 112-92-5/CRN
L95           3 S L94 AND 2/NC
L96           3 S L94 AND MXS/CI
L97           1 S SILICA/CN
L98           3 S (ACRYLIC ACID OR METHACRYLIC ACID OR ACRYLAMIDE)/CN
                SEL RN
L99          89 S E1-E3/CRN AND HOMOPOLYMER AND 1/NC NOT IDS/CI
L100         13 S L99 AND (C4H6O2 OR C3H4O2 OR C3H5NO)
L101          9 S L100 AND 1/NC NOT (CYCLODEXTRIN OR OC4/ES OR TETRAZA? OR ALAN
L102          1 S CELLULOSE/CN
L103          2 S (METHYLCELLULOSE OR HYDROXYBUTYL METHYLCELLULOSE OR HYDROXYPR
L104          3 S (METHYLCELLULOSE OR HYDROXYBUTYLMETHYLCELLULOSE OR HYDROXYPRO
L105          3 S L103,L104
L106         26 S 9004-34-6/CRN AND BUTYL ETHER AND 2/NC
L107          3 S L106 AND C4H10O
L108          1 S 56729-14-7
                E DISTEARYL PHTHALICAMIDE/CN
L109          1 S E2
                E PED 20 ITACONATE/CN
                E PEG 20 ITACONATE/CN
                E PEG-20 ITACONATE/CN
                E ITACONATE/CN
L110          1 S E5

     FILE 'HCAPLUS' ENTERED AT 15:27:26 ON 05 JUN 2002
L111          6 S L54,L59 AND L80-L93,L97,L98,L101-L105,L107-L110
L112          5 S L111 NOT WASTE#/SC,SX
L113         65 S L59 AND (1 OR 62 OR 63 OR 5 OR 15 OR 26)/SC
L114          3 S L54 AND L113
L115         24 S L54 AND L59

     FILE 'REGISTRY' ENTERED AT 15:31:33 ON 05 JUN 2002
L116          1 S SPINOSAD/CN

     FILE 'HCAPLUS' ENTERED AT 15:31:47 ON 05 JUN 2002
L117        193 S L116 OR SPINOSAD
L118          2 S L117 AND L80-L93,L97,L98,L101-L105,L107-L110
L119          0 S L60,L70-L72,L75 AND L117
L120          3 S L114 AND (LICE OR LOUSE OR COCKROACH OR INSECT?)
L121          5 S L118,L120
L122          0 S L54,L59 AND (NIT OR ANOPLUR?)
L123          0 S L117 AND (NIT OR ANOPLUR?)
L124         39 S L54,L117 AND P/DT
L125          9 S L124 AND US/PC
                SEL DN AN 2 3 4 7 9
L126          5 S L125 AND E1-E15
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FILE COVERS 1907 - 5 Jun 2002 VOL 136 ISS 23
FILE LAST UPDATED: 3 Jun 2002 (20020603/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> d all tot l129

L129 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2002 ACS
AN 2002:52080 HCAPLUS
DN 136:243281
TI Fate of spinosad in litter and soils of a mixed conifer stand in the Acadian forest region of New Brunswick
AU Thompson, Dean G.; Harris, Brenda J.; Lanteigne, Leonard J.; Buscarini, Teresa M.; Chartrand, Derek T.
CS Canadian Forest Service, Great Lakes Forestry Centre, Sault Ste. Marie, ON, P6A 2ES, Can.
SO Journal of Agricultural and Food Chemistry (2002), 50(4), 790-795
CODEN: JAFCAU; ISSN: 0021-8561
PB American Chemical Society
DT Journal
LA English
CC **5-4** (Agrochemical Bioregulators)
Section cross-reference(s): 19
AB Spinosad is a natural **insecticide**, produced via fermn. culture of the actinomycete **Saccharopolyspora spinosa**, with potential use against a no. of forest pests including spruce budworm (Choristoneura fumiferana [Clem]). Persistence of spinosad was detd. in terrestrial fate expts. conducted within a semimature stand of black spruce (Picea mariana [Mill.]) and balsam fir (Abies balsamea [L]) in the Acadian forest region of New Brunswick, Canada. Results of expts. established under full coniferous canopy and in a canopy opening indicated that spinosad dissipated rapidly following hyperbolic kinetics in both litter and soils and was not susceptible to leaching. Time to 50% dissipation ests. for **spinosyn A** ranged from 2.0 to 12.4 days depending upon matrix and exptl. conditions. **Spinosyn D** dissipated to levels below quantitation limits (0.02 .mu.g/g of dry mass) within 7 days in all cases. Sporadic low-level detection of the demethylated metabolites suggested that parent compds. were degraded in situ.
ST spinosad decompn leaching litter soil conifer forest
IT Forests
(conifer; fate of spinosad in litter and soils of mixed conifer forest)
IT Decomposition
Insecticides
Leaching
Litter (organic matter)
Soils
(fate of spinosad in litter and soils of mixed conifer forest)
IT Fir (Abies balsamea)
Spruce (Picea rubens)
(fate of spinosad in litter and soils of mixed conifer forest comprising)
IT 168316-95-8, Spinosad
RL: BSU (Biological study, unclassified); REM (Removal or disposal); BIOL (Biological study); PROC (Process)

(fate in litter and soils of mixed conifer forest)
IT **131929-60-7, Spinosyn A 131929-63-0, Spinosyn D**
RL: BSU (Biological study, unclassified); REM (Removal or disposal); BIOL (Biological study); PROC (Process)
(fate of spinosad in litter and soils of mixed conifer forest)
IT 131929-61-8 149439-70-3
RL: FMU (Formation, unclassified); OCU (Occurrence, unclassified); FORM (Formation, nonpreparative); OCCU (Occurrence)
(**spinosyn D** metabolite in studies of fate of spinosad in litter and soils of mixed conifer forest)
RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Borth, P; Proceedings of the Beltwide Cotton Conferences 1996, V2, P690
(2) Boyd, M; Biol Contr 1998, V237, P154
(3) Busacca, J; Abstracts of the 50th North Central Branch of the Entomological Society of America 1995
(4) Cheng, H; Pesticides in the Soil Environment:Processes, Impacts and Modeling 1990, P530
(5) Colpitts, M; Forest Soils of New Brunswick 1995, P51
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(7) Dow Agrosciences; Material Safety Data Sheet Tracer Naturalyte Insect Control MSDS 005499 1998, P4
(8) Dowelanco; Spinosad Technical Guide P25
(9) Draper, N; Applied Regression Analysis, 2nd ed 1981, P709
(10) Faber, M; J Agric Food Chem 1997, V45, P3672 HCAPLUS
(11) Hale, K; J Environ Sci Health 1996, VB31, P477 HCAPLUS
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(13) Helson, B; For Chron 1992, V68, P349
(14) Jandel Scientific; Sigma Plot 4 for Windows User's Manual 1997
(15) Mackay, D; Environmental Chemistry of Herbicides 1991, VII, P281
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(18) Picot, J; Trans ASAE 1993, V36, P1013
(19) Pillmoor, J; Pestic Sci 1993, V39, P131 HCAPLUS
(20) Rose, A; Insects of Eastern Spruces, Fir and Hemlock 1997, 23
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(22) Sparks, T; Proceedings of the Beltwide Cotton Conferences 1996, V2, P692
(23) Stockdale, G; Abstracts of the 50th North Central Branch of the Entomological Society of America 1995
(24) Sundaram, K; J Agric Food Chem 1992, V40, P2523 HCAPLUS
(25) Sundaram, K; Trans ASAE 1986, V29, P382
(26) Thompson, D; Pest Manag Sci, in press 2001
(27) Thompson, D; Pesticides and the Environment 2000, P11
(28) Thompson, G; Pest Manag Sci 2000, V56, P696 HCAPLUS
(29) West, S; J Agric Food Chem 1997, V45, P3107 HCAPLUS
(30) Yeh, L; J Agric Food Chem 1997, V45, P1746 HCAPLUS

L129 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2002 ACS
AN **2001:906108** HCAPLUS
DN **136:16727**
TI Aqueous pesticide dispersions
IN Strom, Robert M.; Price, D. Claude; Lubetkin, Steven D.
PA USA
SO U.S. Pat. Appl. Publ., 5 pp., Cont.-in-part of U.S. Ser. No. 546,270, abandoned.
CODEN: USXXCO
DT **Patent**
LA English
IC ICM A01N025-00

NCL 424405000
CC 5-4 (Agrochemical Bioregulators)
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001051175	A1	20011213	US 2001-865360	20010525 <--
PRAI	US 1999-128994P	P	19990412		
	US 2000-546270	B2	20000410		

AB The bioavailability of a pesticide can be increased by formulating the pesticide as a stable aq. dispersion of particles in the micron or submicron range. The formulation is prepd. by blending a pesticide with a surfactant and water, followed by grinding. Such a formulation has the further advantage of reducing or eliminating the need for org. solvents. The stable aq. dispersion provides a means of prepg. a one part formulation of a plurality of pesticides which would be otherwise unstable in each other's presence.
ST pesticide dispersion aq
IT Pesticide formulations
(aq. pesticide dispersions)
IT 1912-24-9, Atrazine 133855-98-8 **168316-95-8, Spinosad**
264257-62-7
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(aq. dispersion of)

L129 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2002 ACS
AN 2001:417130 HCAPLUS
DN 135:24710
TI Pour-on formulations for control of parasites in animals
IN Hacket, Kristina Clare; Lowe, Lionel Barry; Rothwell, James Terence
PA Eli Lilly and Company, USA
SO PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C12N005-06
ICS C12N005-08; A61K039-395; A61P035-00; A61K038-17; A61K047-48;
A61K039-00; C12Q001-02
CC 63-6 (Pharmaceuticals)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001040446	A1	20010607	WO 2000-US30143	20001117
	WO 2001040446	A3	20020117		

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI AU 1999-4416 A 19991202
AB A non-irritant topically acceptable carrier is selected from the group consisting of: (a) at least 1 of (i) tripropylene glycol Me ether and dipropylene glycol Me ether, and (ii) 1 of alc., wool wax, and propylene glycol, wherein (i) is present at 60% of the carrier; (b) (i) 1 of octyl palmitate, octyl stearate and glyceryl tricaprylate/caprate, and (ii) 1 of dioctyl succinate, iso-Pr myristate, cetearyl octanoate, propylene glycol myristyl ether propionate, iso-Pr palmitate, iso-Pr laurate, isocetyl stearate, oleic acid and Me oleate. **Spinosad** in octyl palmitate/iso-Pr myristate/dioctyl succinate at 10 mg/kg, with or without UV blockers, eradicated lice and at 2 mg/kg, it gave 85-98% efficacy.

ST carrier topical parasite animal; ester carrier topical parasite animal; alc carrier topical parasite animal; ether carrier topical parasite animal

IT Skin, disease
(irritation; pour-on formulations for control of parasites in animals)

IT Bacillus thuringiensis
Bovicola ovis
Livestock
Louse
Sheep
(pour-on formulations for control of parasites in animals)

IT Hormones, insect
Macrolides
Phosphates, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pour-on formulations for control of parasites in animals)

IT Alcohols, biological studies
Glycerides, biological studies
Lanolin
Wool wax
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pour-on formulations for control of parasites in animals)

IT Pyrethrins
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pyrethroids; pour-on formulations for control of parasites in animals)

IT Drug delivery systems
(topical; pour-on formulations for control of parasites in animals)

IT 51-03-6, Piperonyl butoxide 60-51-5, Dimethoate 63-25-2, Carbaryl 83-79-4, Rotenone 114-26-1, Propoxur 121-75-5, Maldison 288-47-1D, Thiazole, derivs. 290-87-9D, 1,3,5-Triazine, derivs. 299-84-3, ronnel 299-86-5, crufomate 463-52-5D, Formamidine, derivs. 463-77-4D, Carbamic acid, derivs., biological studies 2921-88-2, Dursban 52315-07-8, Zeta-cypermethrin 70288-86-7, Ivermectin 86479-06-3, Hexaflumuron 120068-37-3, Fipronil 138261-41-3, Imidacloprid **168316-95-8, Spinosad**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pour-on formulations for control of parasites in animals)

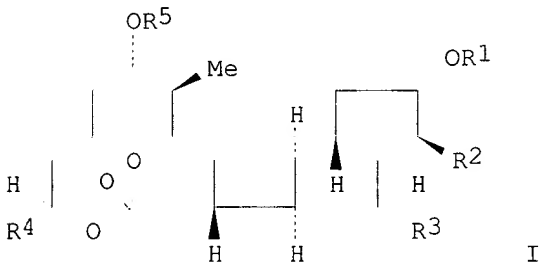
IT **57-55-6**, Propylene glycol, biological studies **100-51-6**, Benzyl alcohol, biological studies 110-27-0, Isopropyl myristate 112-34-5, Diethylene glycol butyl ether 112-62-9, Methyl oleate 112-80-1, Oleic acid, biological studies 123-42-2, Diacetone alcohol 142-91-6, Isopropyl palmitate 2915-57-3 10233-13-3, Isopropyl laurate 22047-49-0, Octyl stearate 25339-09-7, Isocetyl stearate 25498-49-1, Tripropylene glycol methyl ether 29806-73-3 34590-94-8, Dipropylene glycol methyl ether 343326-67-0
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pour-on formulations for control of parasites in animals)

L129 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2002 ACS
AN 2001:208288 HCAPLUS
DN 134:233088
TI Pesticidal macrolides
IN Lewer, Paul; Hahn, Donald R.; Karr, Laura L.; Graupner, Paul R.; Gilbert, Jeffrey R.; Worden, Thomas V.; Yao, Raymond C.; Norton, Dennis W.
PA Dow Agrosciences LLC, USA; Eli Lilly and Company
SO PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DT Patent

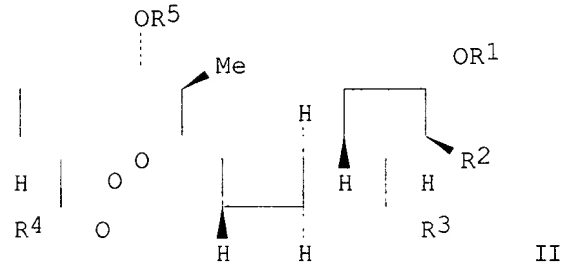
LA English
IC ICM C07H017-08
ICS A01N043-22; C12P019-62
CC **5-4** (Agrochemical Bioregulators)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001019840	A1	20010322	WO 2000-US25060	20000913
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000013963	A	20020514	BR 2000-13963	20000913
PRAI US 1999-153513P	P	19990913		
WO 2000-US25060	W	20000913		

OS MARPAT 134:233088
GI



I



II

AB Macrolide compds. I and II (Markush included) produced by culturing **Saccharopolyspora** species LW107129 (NRRL 30141) have **insecticidal** and acaricidal activity and are useful intermediates for prepg. **spinosyn** analogs. Formulations contg. the said compds. are used to control **lice** infestation in humans.

ST **insecticide** acaricide ectoparasiticide macrolide **Saccharopolyspora louse**

IT Parasiticides
(ecto-; **insecticidal** and acaricidal macrolides produced by **Saccharopolyspora**)

IT **Louse**
(formulations contg. **insecticidal** and acaricidal macrolides produced by **Saccharopolyspora**, against)

IT **Saccharopolyspora**
(**insecticidal** and acaricidal macrolides produced by)

IT Acaricides
Insecticides
(**insecticidal** and acaricidal macrolides produced by **Saccharopolyspora**)
IT Macrolides
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); MFM (Metabolic formation); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); USES (Uses)
(**insecticidal** and acaricidal macrolides produced by **Saccharopolyspora**)
IT 330574-47-5P 330574-50-0P 330574-52-2P 330574-53-3P 330574-54-4P
330574-55-5P 330574-56-6P 330574-57-7P 330574-58-8P 330574-59-9P
330574-60-2P 330574-61-3P 330574-62-4P 330574-63-5P 330574-64-6P
330574-65-7P 330574-66-8P 330574-67-9P 330574-68-0P 330574-69-1P
330574-70-4P 330574-71-5P 330574-72-6P 330574-73-7P 330574-74-8P
330574-75-9P 330574-76-0P 330574-77-1P 330574-78-2P 330574-79-3P
330574-80-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); MFM (Metabolic formation); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); USES (Uses)
(**insecticidal** and acaricidal macrolides produced by **Saccharopolyspora**)
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Broughton, M; US 5539089 A 1996 HCAPLUS
(2) Lilly Co Eli; EP 0375316 A 1990 HCAPLUS

L129 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2002 ACS
AN 2001:136992 HCAPLUS
DN 134:183496
TI Topical organic ectoparasiticidal formulations
IN Kassebaum, James Web; Pugh, Paul Thomas; Thompson, William Webster
PA Eli Lilly and Company, USA
SO PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K009-00
CC 63-6 (Pharmaceuticals)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001012156	A1	20010222	WO 2000-US19549	20000726
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1207851	A1	20020529	EP 2000-948749	20000726
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRAI	US 1999-148508P	P	19990812		
	WO 2000-US19549	W	20000726		

AB This invention provides topical ectoparasiticidal formulations comprising an ectoparasiticide, preferably a pyrethroid or a **spinosyn**,

a spreading agent that is a (C3-C6) branched alkyl (C10-C20) alkanoate, preferably iso-Pr myristate, and optionally a miscibilizing agent compatible with org. solvent systems, and methods of controlling an ectoparasite infestation on certain animals comprising topically applying such formulations to the animal. For example, a topical soln. contained **spinosad** (88.5 % active) 5.65, acetic acid 3, and iso-Pr myristate 91.35 %.

ST topical ectoparasiticide veterinary pyrethroid isopropyl myristate; **spinosad** isopropyl myristate soln ruminant ectoparasiticide

IT Fatty acids, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(C10-20, esters, with C3-6 branched alkanol; topical ectoparasiticidal veterinary formulations)

IT Soybean oil
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Me ester, miscibilizing agent; topical ectoparasiticidal veterinary formulations)

IT **Louse**
(control of; topical ectoparasiticidal veterinary formulations)

IT Parasiticides
(ecto-; topical ectoparasiticidal veterinary formulations)

IT Pyrethrins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pyrethroids; topical ectoparasiticidal veterinary formulations)

IT Pet animal
Ruminant
(topical ectoparasiticidal veterinary formulations)

IT Drug delivery systems
(topical, solns.; topical ectoparasiticidal veterinary formulations)

IT 57-10-3, Palmitic acid, biological studies 57-11-4, Stearic acid, biological studies 64-18-6, Formic acid, biological studies 64-19-7, Acetic acid, biological studies 65-85-0, Benzoic acid, biological studies 79-09-4, Propionic acid, biological studies **100-51-6**, Benzyl alcohol, biological studies 107-92-6, Butyric acid, biological studies 109-52-4, Valeric acid, biological studies 111-14-8, Enanthic acid 112-05-0, Pelargonic acid 112-37-8, Undecylic acid 112-80-1, Oleic acid, biological studies 112-85-6, Behenic acid 122-99-6, Ethylene glycol phenyl ether 124-07-2, Caprylic acid, biological studies 142-62-1, Caproic acid, biological studies 143-07-7, Lauric acid, biological studies 334-48-5, Capric acid 506-12-7, Margaric acid 506-30-9, Arachidic acid 506-46-7, Cerotic acid 506-48-9, Montanic acid 506-50-3, Triacontanoic acid 544-63-8, Myristic acid, biological studies 557-59-5, Lignoceric acid 638-53-9, Tridecylic acid 872-50-4, N-Methyl-2-pyrrolidinone, biological studies 1002-84-2, Pentadecylic acid 5989-27-5, D-Limonene 73435-91-3, Ceroplastolic acid
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(miscibilizing agent; topical ectoparasiticidal veterinary formulations)

IT 110-27-0, Isopropyl myristate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(spreading agent; topical ectoparasiticidal veterinary formulations)

IT 52315-07-8, Zeta-cypermethrin **168316-95-8, Spinosad**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(topical ectoparasiticidal veterinary formulations)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Bayer; EP 0069269 A 1983 HCAPLUS
(2) Bayer; EP 0128351 A 1984 HCAPLUS
(3) Nehezvegyipari; HU 41238 A 1987 HCAPLUS
(4) Novartis; WO 0029378 A 2000 HCAPLUS
(5) Wellcome Australia Ltd; AU 8177004 A 1982 HCAPLUS
(6) Wellcome Australia Ltd; AU 8291850 A 1983 HCAPLUS
(7) Wellcome Australia Ltd; AU 8321947 A 1984 HCAPLUS

L129 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2002 ACS
AN 2001:136940 HCAPLUS
DN 134:158846
TI Topical control of insect pests in companion animals
IN Snyder, Daniel Earl
PA Eli Lilly and Company, USA
SO PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A01N043-22
CC 5-4 (Agrochemical Bioregulators)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001011962	A1	20010222	WO 2000-US19556	20000802

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1999-148548P P 19990812
AB The invention provides single-dose topical formulations for controlling an ectoparasite infestation on a companion animal for a prolonged time, comprising a **spinosyn**, or a deriv. or salt thereof, and a carrier.
ST ectoparasiticide car dog rabbit horse
IT Fly (Diptera)
(biting or nuisance; topical control of insect pests in companion animals)
IT Parasiticides
(ecto-; topical control of insect pests in companion animals)
IT Cat (Felis catus)
Ctenocephalides felis
Dog (Canis familiaris)
Horse (Equus caballus)
Housefly (Musca domestica)
Insecticides
Louse
Mite and Tick
Mosquito
Rabbit
Stomoxys calcitrans
(topical control of insect pests in companion animals)
IT **131929-60-7, Spinosyn A** 168316-95-8,
Spinosad
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(topical control of insect pests in companion animals)
RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Anzeveno, P; US 6001981 A 1999 HCAPLUS
(2) Dowelanco; WO 9309126 A 1993 HCAPLUS
(3) Dowelanco; WO 9420518 A 1994 HCAPLUS
(4) Dowelanco; WO 9700265 A 1997 HCAPLUS
(5) Huber, M; US 5591606 A 1997 HCAPLUS
(6) Huber, M; US 5631155 A 1997 HCAPLUS
(7) Huber, M; US 5767253 A 1998 HCAPLUS

(8) Lilly, C; EP 0375316 A 1990 HCAPLUS
(9) Lilly, C; EP 0968706 A 2000 HCAPLUS
(10) Mynderse, J; US 5202242 A 1993 HCAPLUS

L129 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2002 ACS
AN **2000:12619** HCAPLUS
DN **132:69122**
TI Hair formulations containing **spinosyn** for controlling human **lice**
IN Snyder, Daniel Earl
PA Eli Lilly and Company, USA
SO Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DT **Patent**
LA English
IC ICM A61K007-06
ICS A01N043-22; A61K031-35
CC 62-7 (Essential Oils and Cosmetics)
Section cross-reference(s): 63
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 968706	A2	20000105	EP 1999-305102	19990629
	EP 968706	A3	20010905		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	WO 2000001347	A2	20000113	WO 1999-US13925	19990621
	WO 2000001347	A3	20000323		
	W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9947004	A1	20000124	AU 1999-47004	19990621
	BR 9911795	A	20010327	BR 1999-11795	19990621
	US 6063771	A	20000516	US 1999-338116	19990622 <--
	US 6342482	B1	20020129	US 2000-543441	20000405 <--
	NO 2001000014	A	20010228	NO 2001-14	20010102
PRAI	US 1998-91658P	P	19980702		
	WO 1999-US13925	W	19990621		
	US 1999-338116	A1	19990622		

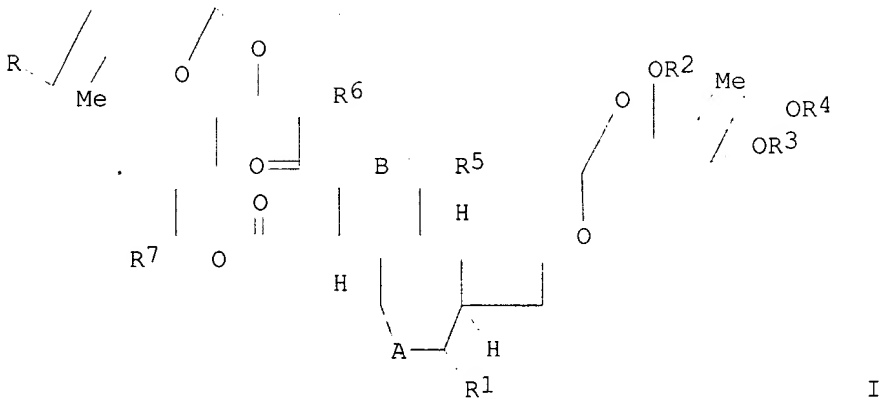
AB Safer pediculicidal formulations comprising a **spinosyn**, or a deriv. or salt and a carrier, and methods of controlling **lice** infestations in humans with these formulations are provided. Thus, a lotion contained polyvinylpyrrolidone 0.50, DMDM hydantoin 0.20, tetrasodium EDTA 0.13, citric acid 0.05, PEG-60 castor oil 0.50, hexylene glycol 4.00, dicetyldimethylammonium chloride 0.38, **spinosyn A** 0.50, and water qs to 100.00% by wt.
ST hair formulation **spinosyn lice**
IT Hair preparations
(conditioners; hair formulations contg. **spinosyn** for controlling human **lice**)
IT Hair preparations
Shampoos
Surfactants
(hair formulations contg. **spinosyn** for controlling human **lice**)
IT Polysiloxanes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(hair formulations contg. **spinosyn** for controlling human

lice)
IT **Louse**
(head, infestation; hair formulations contg. **spinosyn** for controlling human **lice**)
IT **Louse**
Louse (Pediculus humanus humanus)
Pthirus pubis
(infestation; hair formulations contg. **spinosyn** for controlling human **lice**)
IT **131929-60-7, Spinosyn A 168316-95-8, Spinosad**
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(hair formulations contg. **spinosyn** for controlling human **lice**)
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Anon; EP 0968706 A2 HCAPLUS

L129 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2002 ACS
AN **1999:794364** HCAPLUS
DN **132:35986**
TI Preparation of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides
IN Deamicis, Carl Vincent; Anzeveno, Peter Biagio; Martynow, Jacek G.; McLaren, Kevin L.; Green, Frederick Richard, III; Sparks, Thomas C.; Kirst, Herbert A.; Creemer, Lawrence Camillo; Worden, Thomas V.; Schoonover, Joe Raymond, Jr.; Gifford, James Michael; Hatton, Christopher J.; Hegde, Vidyadhar B.; Crouse, Gary D.; Thoreen, Brian R.; Ricks, Michael J.
PA Dow Agrosciences LLC, USA
SO U.S., 122 pp., Cont. of U.S. Ser. No. 662,549, abandoned.
CODEN: USXXAM
DT **Patent**
LA English
IC ICM C07H017-00
NCL 536007100
CC 33-7 (Carbohydrates)
Section cross-reference(s): 5, 34
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6001981	A	19991214	US 1997-968856	19971105 <--
PRAI	US 1996-662549		19960613		

OS MARPAT 132:35986
GI



I

AB Title compds. I (A, B = single bond, double bond, epoxide linkage; R = alkylamino, ether; R1, R6 = H, Me; R2-R4 = alkyl, haloalkyl, alkanoyl, OH; R5 = H, alkyl, alkylamino, alkylhydroxylamino; R7 = Me, Et) are prepd. by modifying the compds. that are naturally produced from Saccharopolyspora spinosa. The compds. of the invention have been shown to have activity against insects and mites. The compds. are prepd. by modifying the rhamnose sugar, modification of the forosamine sugar, or starting with pseudo-aglycon and then replacement with a nonsugar deriv. or different sugar, modification of the 5, 6, 5-tricyclic and 12-membered macrocyclic lactone part of the compds. naturally produced or of the pseudo-aglycon of the natural compds. Thus, 2'-O-trifluoroacetyl **spinosyn** Q was prepd. and tested as a control of Stomoxys calcitrans (stable fly) and Phormia regina (blow fly) with 100% of ASF killed at 100 ppm.

ST Phormia regina insecticide **spinosyn** glycoside prepn; Stomoxys calcitrans insecticide **spinosyn** glycoside prepn; amino acid **spinosyn** aminodeoxy glycoside prepn; miticide **spinosyn** macrocyclic aminodeoxy glycoside prepn; Saccharopolyspora spinosa **spinosyn** purifn; **spinosyn** macrocyclic aminodeoxy glycoside prepn insecticide

IT Caseins, uses
RL: CAT (Catalyst use); USES (Uses)
(hydrolyzates, soy broth; prepn. of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides)

IT Acaricides
Insecticides
Phormia regina
Saccharopolyspora spinosa
Stomoxys calcitrans
(prepn. of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides)

IT Amino acids, preparation
Glycosides
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides)

IT 187165-87-3P 187165-89-5P 187166-24-1P 187166-65-0P
RL: BAC (Biological activity or effector, except adverse); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides)

IT 814-68-6P, Acryloyl chloride 54771-24-3P, Chlorobutyryl chloride
56709-66-1P 131929-56-1P 131929-57-2P 131929-68-5P 149439-70-3P
149439-71-4P 149439-72-5P 149439-75-8P 149439-76-9P 149439-77-0P
149560-97-4P 153223-05-3P 159059-20-8P 159059-21-9P 186352-03-4P
187165-62-4P 187165-65-7P 187165-67-9P 187165-69-1P 187165-71-5P
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187165-85-1P 187165-90-8P 187165-92-0P 187165-94-2P 187165-96-4P
187165-98-6P 187166-00-3P 187166-02-5P 187166-04-7P 187166-06-9P
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187167-66-4P 187167-67-5P 187167-68-6P **187167-70-0P**
187167-71-1P 187167-72-2P 187167-73-3P 187167-74-4P
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187168-74-7P 187168-75-8P 187168-76-9P 187168-77-0P 187168-78-1P

RL: BAC (Biological activity or effector, except adverse); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides)

IT 187168-79-2P 187168-80-5P 187168-82-7P 187168-83-8P 187168-84-9P
187168-86-1P 187168-91-8P 187168-92-9P 187168-94-1P 187168-98-5P
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187169-53-5P 187169-55-7P 187169-56-8P 187169-59-1P 187169-61-5P
187169-63-7P 187169-65-9P 187169-66-0P 187169-67-1P 187169-68-2P
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187169-88-6P 187169-90-0P 187169-91-1P 187169-92-2P 187169-94-4P
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187170-16-7P 187170-19-0P 187170-21-4P 187170-23-6P 187170-25-8P
187170-26-9P 187170-27-0P 187170-29-2P 187170-31-6P 187170-34-9P
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252575-63-6P 252575-64-7P 252575-65-8P 252575-83-0P
RL: BAC (Biological activity or effector, except adverse); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides)

IT 252575-85-2P 252575-86-3P 252575-87-4P 252575-88-5P 252575-89-6P
252575-90-9P 252575-91-0P 252575-92-1P 252575-93-2P 252575-94-3P
252575-95-4P 252575-96-5P 252575-97-6P 252575-98-7P 252575-99-8P
252576-00-4P 252576-01-5P **252576-02-6P** 252576-03-7P
252576-06-0P 252576-07-1P 252576-09-3P 252576-10-6P 252576-11-7P
252576-12-8P 252576-13-9P 252576-16-2P 252576-17-3P 252576-18-4P
252576-19-5P 252576-20-8P 252576-21-9P 252576-22-0P 252576-23-1P
252576-24-2P 252576-25-3P 252576-27-5P
RL: BAC (Biological activity or effector, except adverse); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides)

IT **131929-60-7P**, **Spinosyn A** 131929-61-8P,
Spinosyn B 131929-62-9P, **Spinosyn** C
131929-63-0P, **Spinosyn D** 131929-64-1P,
Spinosyn E 131929-65-2P, **Spinosyn** F 131929-66-3P,
Spinosyn H 131929-67-4P, **Spinosyn** J
132016-82-1P, **Spinosyn G** 149092-01-3P,
Spinosyn L 159195-00-3P, **Spinosyn** k 159195-01-4P,
Spinosyn O 159195-06-9P, **Spinosyn** Y
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PUR (Purification or recovery); RCT (Reactant); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides)

IT 252576-26-4P 252576-29-7P
RL: BPN (Biosynthetic preparation); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides)

IT 149092-02-4, **Spinosyn** M 149092-03-5, **Spinosyn** N
RL: CAT (Catalyst use); USES (Uses)

(prepn. of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides)

IT 55-22-1, Isonicotinic acid, reactions 56-37-1, Benzyltriethylammonium chloride 62-23-7, p-Nitrobenzoic acid 64-67-5, Diethyl sulfate 65-85-0, Benzoic acid, reactions 75-03-6 75-30-9, 2-Iodopropane 76-02-8, Trichloroacetyl chloride 79-04-9, Chloroacetic chloride 79-30-1, Isobutyroyl chloride 85-52-9, 2-Benzoylbenzoic acid 100-09-4, 4-Methoxybenzoic acid 102-36-3, 3,4-Dichlorophenyl isocyanate 103-82-2, Phenylacetic acid, reactions 104-01-8, 4-Methoxyphenylacetic acid 104-03-0, 4-Nitrophenylacetic acid 106-95-6, Allyl bromide, reactions 106-96-7, Propargyl bromide 107-08-4, 1-Iodopropane 108-95-2, Phenol, reactions 109-01-3, 1-Methylpiperazine 110-85-0, Piperazine, reactions 110-87-2, 3,4-Dihydro-2H-pyran 110-91-8, Morpholine, reactions 110-94-1, Glutaric acid 111-24-0, 1,5-Dibromopentane 118-91-2, o-Chlorobenzoic acid 288-32-4, Imidazole, reactions 298-06-6 329-15-7, (p-Trifluoromethyl)benzoyl chloride 351-35-9, 3-Trifluoromethylphenylacetic acid 358-23-6, Trifluoromethanesulfonic anhydride 407-25-0, Trifluoroacetic anhydride 420-37-1, Trimethyloxonium tetrafluoroborate 475-11-6, N-Methyl proline 513-38-2, 1-Iodo-2-methylpropane 536-66-3, 4-Isopropylbenzoic acid 541-41-3, Ethyl chloroformate 542-69-8, 1-Iodobutane 542-85-8, Ethylisothiocyanate 545-06-2, Trichloroacetonitrile 589-57-1, Diethyl chlorophosphite 590-17-0, Bromoacetonitrile 593-71-5, Chloroiodomethane 598-21-0, Bromo acetyl bromide 619-84-1, 4-Dimethylaminobenzoic acid 622-78-6, Benzylisothiocyanate 623-47-2, Ethyl propiolate 624-83-9, Methyl isocyanate 625-80-9, Diisopropyl sulfide 628-17-1, 1-Iodopentane 628-21-7, 1,4-Diiodobutane 628-77-3, 1,5-Diiodopentane 701-99-5, Phenoxyacetyl chloride 762-49-2, 1-Bromo-2-fluoroethane 922-67-8, Methyl propiolate 947-84-2, 2-Phenylbenzoic acid 1118-68-9 1142-20-7 1798-09-0, 3-Methoxyphenylacetic acid 1877-73-2, 3-Nitrophenylacetic acid 1878-65-5, 3-Chlorobenzeneacetic acid 1878-66-6, 4-Chlorophenylacetic acid 1972-28-7, Diethyl azodicarboxylate 2438-04-2, 2-Isopropylbenzoic acid 2444-36-2, 2-Chlorobenzeneacetic acid 2524-04-1, Diethyl chlorothiophosphate 2605-67-6, Carbomethoxymethylene triphenylphosphorane 3282-30-2, Pivaloyl chloride 3303-84-2 4124-30-5, Dichloroacetic anhydride 4530-20-5 4755-77-5, Ethyl oxalyl chloride 5292-43-3, tert-Butyl bromoacetate 5416-93-3, 4-Methoxyphenyl isocyanate 5470-11-1, Hydroxylamine hydrochloride 5799-67-7, Dimethyl(methylthio)sulfonium tetrafluoroborate 5807-30-7, 3,4-Dichlorobenzeneacetic acid 6226-25-1, 2,2,2-Trifluoroethyl trifluoromethanesulfonate 6482-24-2, 2-Methoxyethyl bromide 6575-24-2, 2,6-Dichlorophenylacetic acid 7051-34-5, (Cyclopropyl)methyl bromide 10493-44-4, 4-Bromo-1,1,2-trifluorobutene 10511-51-0, N-Benzyl-3-indolecarboxaldehyde 13057-17-5, Bromomethyl methyl ether 15674-67-6 16911-89-0, Phenyl chlorodithioformate 17341-93-4, 2,2,2-Trichloroethyl chloroformate 17476-04-9, Lithium tri-tert-butoxyaluminum hydride 19719-28-9, 2,4-Dichlorophenylacetic acid 20980-22-7, 2-(1-Piperazinyl)pyrimidine 27578-60-5, 1-(2-Aminoethyl)-piperidine 27607-77-8, Trimethylsilyl triflate 34819-86-8 35037-73-1, 4-(Trifluoromethoxy)phenyl isocyanate 35661-39-3 35737-10-1 36239-09-5, Ethyl malonyl chloride 50533-97-6, 4-Dimethylamino piperidine 59025-55-7, 2,4-Difluorophenyl isocyanate 63864-94-8 68641-49-6 69980-52-5 73899-14-6 81290-20-2, Trifluoromethyl(trimethyl)silane 92367-11-8 135192-53-9, Pentafluorophenylchlorothionoformate 145490-75-1 187165-73-7 187171-49-9 252576-04-8 252576-05-9 252576-08-2 252576-15-1 252576-28-6 252576-31-1 252576-32-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides)

IT 187166-57-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
(prepn. of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides)

IT 252576-30-0P
RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of **spinosyn** macrocyclic lactone aminodeoxy glycosides as insecticides and miticides)

RE.CNT 86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD

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L129 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2002 ACS
AN 1997:503831 HCAPLUS
DN 127:105586
TI Studies on the mode of action of spinosad, the active ingredient in Tracer **insect** control
AU Salgado, Vincent L.; Watson, Gerald B.; Sheets, Joel J.
CS DowElanco, Indianapolis, IN, USA
SO Proc. - Beltwide Cotton Conf. (1997), (Vol. 2), 1082-1084
CODEN: PCOCEN; ISSN: 1059-2644
PB National Cotton Council
DT Journal
LA English
CC **5-4** (Agrochemical Bioregulators)
AB Studies defining the mode of action of spinosad are summarized, using the American **cockroach** as an exptl. **insect**. Spinosad is a naturally occurring mixt. of two closely related macrocyclic lactones, known as **spinosyns**, produced by the actinomycete **Saccharopolyspora spinosa**. In vivo studies showed that **spinosyns** caused widespread excitation of neurons in the central nervous system, leading to involuntary muscle contractions and tremors. At a threshold dose, **spinosyn A** was estd. by radiotracer measurements to reach an internal equiv. aq. concn. of approx. 20 nM, and this concn. was sufficient to directly excite the isolated **cockroach** central nervous system. Furthermore, in isolated neurons, the excitation was found to be due to persistent activation of

nicotinic acetylcholine receptors and prolongation of acetylcholine responses by a novel mechanism that distinguishes spinosad from all other nicotinic agonists. Under certain conditions, **spinosyns** also had effects on .gamma.-aminobutyric acid receptors, but their contribution to symptoms has not been established. Because of its novel mode of action, spinosad has an excellent resistance management profile; with no known cross-resistance, it can be rotated with all other classes of existing and exptl. products.

ST neurochem mechanism action spinosad **insecticide** **cockroach**

IT Biochemistry
(neurobiochem.; neurochem. mechanism of action of spinosad **insecticide** on **cockroach**)

IT **Insecticides**
Periplaneta americana
(neurochem. mechanism of action of spinosad **insecticide** on **cockroach**)

IT 168316-95-8, Spinosad
RL: BAC (Biological activity or effector, except adverse); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(neurochem. mechanism of action of spinosad **insecticide** on **cockroach**)

L129 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2002 ACS
AN **1993:515482** HCAPLUS
DN **119:115482**
TI New A83543 compounds, their manufacture with Saccharopolyspora spinosa, and their use as insecticides and miticides
IN Creemer, Lawrence; Kirst, Herbert A.; Mynderse, Jon S.; Broughton, Mary C.; Huber, Mary L. B.; Martin, James W.; Turner, Jan R.
PA Dowelanco, USA
SO PCT Int. Appl., 89 pp.
CODEN: PIXXD2
DT **Patent**
LA English
IC ICM C07H017-08
ICS C12P019-62; C12N001-20; A01N043-22
ICI C12N001-20, C12R001-01; C12P019-62, C12R001-01
CC 16-2 (Fermentation and Bioindustrial Chemistry)
Section cross-reference(s): 5
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 9309126	A1	19930513	WO 1992-US9684	19921109	
	W: AU, BR, CA, JP, RU, SD, UA					
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE					
	US 5202242	A	19930413	US 1991-790287	19911108	<--
	CN 1073483	A	19930623	CN 1992-114318	19921107	
	AU 9331318	A1	19930607	AU 1993-31318	19921109	
	AU 666900	B2	19960229			
	EP 573628	A1	19931215	EP 1992-925146	19921109	
	EP 573628	B1	19990120			
	R: DE, ES, FR, GB, GR, IT, NL					
	BR 9205458	A	19940531	BR 1992-5458	19921109	
	JP 06506477	T2	19940721	JP 1993-508775	19921109	
	RU 2165704	C2	20010427	RU 1993-58364	19921109	
	US 5539089	A	19960723	US 1994-301835	19940907	<--
PRAI	US 1991-790282	A	19911108			
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	US 1991-790616	A	19911108			
	WO 1992-US9684	A	19921109			
	US 1993-137697	B1	19931015			

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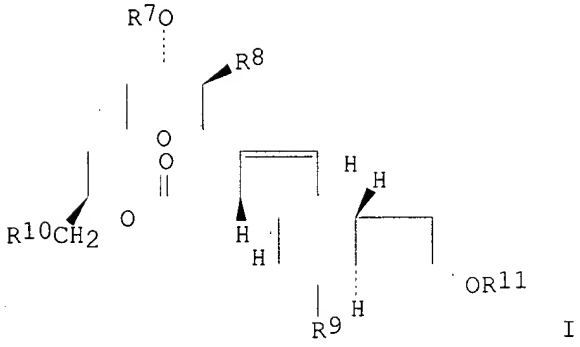


I

AB New A83543 compds. (I; R7=H,amino sugar; R8-R10=H,Me; R11=H,neutral sugar) are manufd. with S. spinosa mutants for use as insecticides, miticides, or ectoparasiticides. By fermn. with A83543J- or A83543Q-producing S. spinosa mutant, seven A83543 compds. were manufd. Also N-demethyl **A83543D** was prepd. from **A83543D** by reaction with I2 in the presence of an inert solvent and a weak base. Also shown was the prepn. of pseudoaglycones from I by removal of the amino sugar with an acid, esp. sulfuric acid.

ST A83543 compd insecticide miticide ectoparasiticide Saccharopolyspora; pseudoaglycone A83543 compd Saccharopolyspora

IT Fermentation
(A83543 compds., with Saccharopolyspora spinosa mutants)

IT Acaricides
Insecticides
(from Saccharopolyspora spinosa mutants, A83543 compds. as)

IT Saccharopolyspora spinosa
(mutants, A83543 compds. manuf. with)

IT Parasiticides
(ecto-, from Saccharopolyspora spinosa mutants, A83543 compds. as)

IT 7664-93-9, Sulfuric acid, uses
RL: BIOL (Biological study)
(in pseudoaglycones prepn. from A83543 compds.)

IT 149092-01-3P, A 83543L 149092-02-4P, A 83543M 149092-03-5P, A 83543N 149438-28-8P, A 83543Q 149438-29-9P, A 83543R 149438-30-2P, A 83543T 149466-03-5P, A 83543S
RL: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP (Preparation)
(manuf. of, with Saccharopolyspora spinosa mutant, for use as insecticides or miticides or ectoparasiticides)

IT 149092-05-7P 149439-75-8P 149439-76-9P 149439-77-0P 149439-78-1P 149439-79-2P 149439-80-5P 149439-81-6P 149439-82-7P 149466-30-8P 149560-97-4P
RL: PREP (Preparation)
(prepn. of)

IT 149439-70-3P
RL: PREP (Preparation)
(prepn. of, from **A83543D** by incubation with iodine, for use as insecticides or miticides or ectoparasiticides)

IT 149439-71-4P
RL: PREP (Preparation)
(prepn. of, from A83543J)

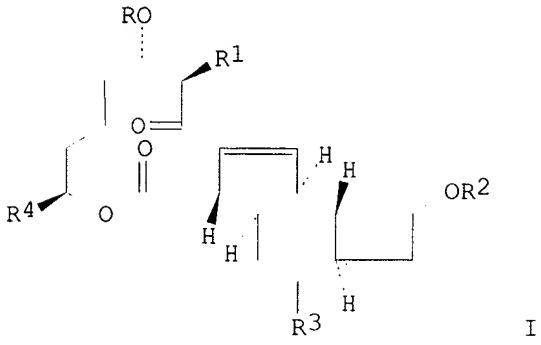
IT 149439-72-5P
RL: PREP (Preparation)
(prepn. of, from A83543L)

IT 149439-73-6P
RL: PREP (Preparation)
(prepn. of, from A83543M)
IT 149439-74-7P
RL: PREP (Preparation)
(prepn. of, from A83543N)

L129 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2002 ACS
AN **1991:80066** HCAPLUS
DN **114:80066**
TI Novel macrolide insecticides from Saccharopolyspora spinosa
IN Boeck, LaVerne Dwaine; Chio, Hang; Eaton, Tom Edward; Godfrey, Otis Webster, Jr.; Michel, Karl Heinz; Nakatsukasa, Walter Mitsuo; Yao, Raymond Che Fong
PA Lilly, Eli, and Co., USA
SO Eur. Pat. Appl., 78 pp.
CODEN: EPXXDW
DT **Patent**
LA English
IC ICM C07H017-08
ICS C12P019-62; C12N001-20
ICI C12N001-20, C12R001-01; C12P019-62, C12R001-01
CC 16-2 (Fermentation and Bioindustrial Chemistry)
Section cross-reference(s): 5, 10
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	EP 375316	A1	19900627	EP 1989-313195	19891218	
	EP 375316	B1	19941228			
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE					
	IL 92743	A1	19941021	IL 1989-92743	19891217	
	CA 2005784	AA	19900619	CA 1989-2005784	19891218	
	CA 2005784	C	19990202			
	DK 8906420	A	19900620	DK 1989-6420	19891218	
	NO 8905096	A	19900620	NO 1989-5096	19891218	
	NO 176914	B	19950313			
	NO 176914	C	19950621			
	AU 8946891	A1	19900621	AU 1989-46891	19891218	
	AU 624458	B2	19920611			
	CN 1043742	A	19900711	CN 1989-109377	19891218	
	CN 1035391	B	19970709			
	HU 52562	A2	19900728	HU 1989-6661	19891218	
	BR 8906547	A	19900904	BR 1989-6547	19891218	
	JP 02223589	A2	19900905	JP 1989-328100	19891218	
	JP 2535080	B2	19960918			
	ZA 8909680	A	19900926	ZA 1989-9680	19891218	
	DD 290351	A5	19910529	DD 1989-335848	19891218	
	IN 169756	A	19911221	IN 1989-CA1041	19891218	
	PL 161476	B1	19930630	PL 1989-282843	19891218	
	ES 2065398	T3	19950216	ES 1989-313195	19891218	
	FI 95601	B	19951115	FI 1989-6053	19891218	
	FI 95601	C	19960226			
	CZ 285992	B6	19991215	CZ 1989-7170	19891218	
	RO 106065	B1	19930226	RO 1989-143411	19891219	
	US 5362634	A	19941108	US 1991-773754	19911010	<--
	FI 9500946	A	19950301	FI 1995-946	19950301	
	FI 96224	B	19960215			
	FI 96224	C	19960527			
	US 5496931	A	19960305	US 1995-406760	19950317	<--
	US 5571901	A	19961105	US 1995-479500	19950607	<--
PRAI	US 1988-286591	A	19881219			
	US 1989-429441	A	19891030			
	FI 1989-6053	A	19891218			

US 1991-773754 A3 19911010
US 1993-141174 B1 19931022
US 1995-406760 A1 19950317
OS MARPAT 114:80066
GI



I

AB Novel macrolide compds. A83543 (I; R=H, substituted sugar; R1, R3 = H, Me; R2 = (substituted) methoxy sugar, R4 = Me, Et) are manufd. by Saccharopolyspora spinosa. These compds. have insecticidal and miticidal activities against agricultural pests, particularly ectoparasites and may act systemically. **A83543A** and **A83543D** were prepd. from cells grown in a complex medium by extn. with MeOH and hydrophobic, high-performance, and reverse-phase chromatog. to recover 778 mg **A83543A** and 212 mg **A83543D** from 10 L medium. In tests on Southern armyworms **A83543A** was effective topically at 50 ppm on 1st and 2nd instar, but became less effective at later stages. When foliar applications on bushbeans were used the compd. was effective at 10 ppm up to 3rd instar.

ST A83543 insecticide miticide fermn Saccharopolyspora; ectoparasite systemic treatment A83543

IT Feed
(additives, ectoparasiticidal, compds. A83543 of Saccharopolyspora spinosa as)

IT Saccharopolyspora spinosa
(insecticidal and miticidal compds. A83543 manuf. with)

IT Fermentation
(insecticidal and miticidal compds. A83543, with Saccharopolyspora spinosa)

IT Molecular structure, natural product
(of compd. **A83543A** pseudoglycone, from Saccharopolyspora spinosa)

IT Molecular structure, natural product
(of compd. **A83543A**, from Saccharopolyspora spinosa)

IT Molecular structure, natural product
(of compd. A83543B, from Saccharopolyspora spinosa)

IT Molecular structure, natural product
(of compd. A83543C, from Saccharopolyspora spinosa)

IT Molecular structure, natural product
(of compd. **A83543D**, from Saccharopolyspora spinosa)

IT Molecular structure, natural product
(of compd. A83543E, from Saccharopolyspora spinosa)

IT Molecular structure, natural product
(of compd. A83543F, from Saccharopolyspora spinosa)

IT Molecular structure, natural product
(of compd. **A83543G**, from Saccharopolyspora spinosa)

IT Molecular structure, natural product
(of compd. A83543H, from Saccharopolyspora spinosa)

IT Molecular structure, natural product
(of compd. A83543J, from Saccharopolyspora spinosa)
IT Acaricides
Insecticides
(systemic, compds. A83543 from Saccharopolyspora spinosa as)
IT Pharmaceutical dosage forms
(injections, for compds. A83543, as systemic ectoparasiticides)
IT 131688-53-4DP, A 83543, substitution derivs. 131929-55-0P 131929-56-1P
131929-57-2P 131929-58-3P 131929-59-4P **131929-60-7P,**
A 83543A 131929-61-8P, A 93543B 131929-62-9P, A
83543C **131929-63-0P, A 83543D**
131929-64-1P, A 83543E 131929-65-2P, A 83543F 131929-66-3P, A 83543H
131929-67-4P, A 83543J 131929-68-5P, **A 83543A**
Pseudoglycone **132016-82-1P, A 83543G**
RL: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP
(Preparation)
(manuf. of, with Saccharopolyspora spinosa)

=> fil reg
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DICTIONARY FILE UPDATES: 3 JUN 2002 HIGHEST RN 425364-64-3

TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002

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for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s l130 not l44,l48
L131 3 L130 NOT (L44 OR L48)

=> d ide can tot

L131 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2002 ACS
RN **168316-95-8** REGISTRY
CN Spinosad (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Conserve
CN Tracer
CN Tracer Naturalyte
MF Unspecified
CI COM, MAN
SR CA
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CBNB, CEN, CIN,
CSNB, MRCK*, PIRA, PROMT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
145 REFERENCES IN FILE CA (1967 TO DATE)
9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
149 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:351654

REFERENCE 2: 136:336648

REFERENCE 3: 136:336612

REFERENCE 4: 136:324172

REFERENCE 5: 136:320814

REFERENCE 6: 136:320622

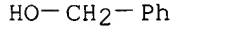
REFERENCE 7: 136:305548

REFERENCE 8: 136:305521

REFERENCE 9: 136:288560

REFERENCE 10: 136:274825

L131 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2002 ACS
RN **100-51-6** REGISTRY
CN Benzenemethanol (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzyl alcohol (8CI)
OTHER NAMES:
CN (Hydroxymethyl)benzene
CN .alpha.-Hydroxytoluene
CN .alpha.-Toluenol
CN Benzenecarbinol
CN Benzylic alcohol
CN Phenylcarbinol
CN Phenylmethanol
CN Phenylmethyl alcohol
CN Sunmorl BK 20
FS 3D CONCORD
DR 1336-27-2, 185532-71-2
MF C7 H8 O
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16506 REFERENCES IN FILE CA (1967 TO DATE)
381 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
16537 REFERENCES IN FILE CAPLUS (1967 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 136:363025

REFERENCE 2: 136:363024

REFERENCE 3: 136:361826

REFERENCE 4: 136:359552

REFERENCE 5: 136:359540

REFERENCE 6: 136:358687

REFERENCE 7: 136:356754

REFERENCE 8: 136:355830

REFERENCE 9: 136:355424

REFERENCE 10: 136:355280

L131 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2002 ACS
RN **57-55-6** REGISTRY
CN 1,2-Propanediol (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN (.+-.)-1,2-Propanediol
CN (.+-.)-Propylene glycol
CN (RS)-1,2-Propanediol
CN .alpha.-Propylene glycol
CN 1,2-(RS)-Propanediol
CN 1,2-Dihydroxypropane
CN 1,2-Propylene glycol
CN 1000PG
CN 2,3-Propanediol
CN 2-Hydroxypropanol
CN DL-1,2-Propanediol
CN dl-Propylene glycol
CN Dowfrost
CN Isopropylene glycol
CN Methylethyl glycol
CN Methylethylene glycol
CN Monopropylene glycol
CN PG 12
CN Propylene glycol
CN Sirlene
CN Solar Winter Ban
CN Solargard P
CN Ucar 35
FS 3D CONCORD
DR 63625-56-9, 4254-16-4, 190913-75-8
MF C3 H8 O2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PHAR, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)